

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/582,654  
Source: IFWP  
Date Processed by STIC: 06/22/2006

# ***ENTERED***



IFWP

## RAW SEQUENCE LISTING

DATE: 06/22/2006

PATENT APPLICATION: US/10/582,654

TIME: 12:50:23

Input Set : A:\seq listing.app

Output Set: N:\CRF4\06222006\J582654.raw

3 <110> APPLICANT: Ono et al.

5 <120> TITLE OF INVENTION: Modified antibodies recognizing receptor trimers or higher multimers

7 <130> FILE REFERENCE: 75996-01

C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/582,654

C--> 9 <141> CURRENT FILING DATE: 2006-06-12

9 <150> PRIOR APPLICATION NUMBER: PCT/JP2004/018507

10 <151> PRIOR FILING DATE: 2004-12-10

12 <150> PRIOR APPLICATION NUMBER: JP 2003-415735

13 <151> PRIOR FILING DATE: 2003-12-12

15 <160> NUMBER OF SEQ ID NOS: 42

17 <170> SOFTWARE: PatentIn version 3.1

19 <210> SEQ ID NO: 1

20 <211> LENGTH: 797

21 <212> TYPE: DNA

22 <213> ORGANISM: Artificial

24 <220> FEATURE:

25 <223> OTHER INFORMATION: An artificially synthesized nucleotide sequence

27 <400> SEQUENCE: 1

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30	gtccagtgtg	aggtacagct	gttggagtct	gggggaggct	tggtacagcc	tgggaggtcc	120
32	ctgagactct	cctgtgcagc	ctctggattc	accttagca	gctatgccat	gagctgggtc	180
34	cgccaggctc	caggaagg	gctggagtgg	gtctcagcta	ttagtggtag	tggtggtagc	240
36	agatactacg	cagactccgt	gaagggccgg	ttcaccatct	ccagagacaa	ttccaagaac	300
38	acgctgtatc	tgcaaatgaa	cagcctgaga	gccgaggaca	cggccgtata	ttactgtgcg	360
40	aaagagagca	gtggctgggt	cggggccttt	gactactggg	gccaggaac	cctggtcacc	420
42	gtctcctcag	gtggagaaat	tgtgctgact	cagtctccag	actttcagtc	tgtgactcca	480
44	aaggagaaag	tcaccatcac	ctgccgggcc	agtcagagca	ttggtagtag	cttacctgg	540
46	taccagcaga	aaccagatca	gtctccaaag	ctcctcatca	agtatgcttc	ccagtccttc	600
48	tcaggggtcc	cctcgagggt	cagtggcagt	ggatctggga	cagatttcac	cctcaccatc	660
50	aatagcctgg	aagctgaaga	tgctgcagcg	tattactgtc	atcagagtag	tagtttaccg	720
52	atcaccttcg	gccaaggac	acgactggag	attaaagact	acaaggatga	cgacgataag	780
54	tgataagcgg	ccgcaat					797

57 <210> SEQ ID NO: 2

58 <211> LENGTH: 256

59 <212> TYPE: PRT

60 <213> ORGANISM: Artificial

62 <220> FEATURE:

63 <223> OTHER INFORMATION: An artificially synthesized peptide sequence

65 <400> SEQUENCE: 2

66	Met	Glu	Phe	Gly	Leu	Ser	Trp	Leu	Phe	Leu	Val	Ala	Ile	Leu	Lys	Gly
67	1				5						10				15	
69	Val	Gln	Cys	Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln
70				20					25						30	

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72 Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
73          35          40          45
75 Ser Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
76      50          55          60
78 Glu Trp Val Ser Ala Ile Ser Gly Ser Gly Gly Ser Arg Tyr Tyr Ala
79 65          70          75          80
81 Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn
82          85          90          95
84 Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
85          100          105          110
87 Tyr Tyr Cys Ala Lys Glu Ser Ser Gly Trp Phe Gly Ala Phe Asp Tyr
88      115          120          125
90 Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Glu Ile Val
91      130          135          140
93 Leu Thr Gln Ser Pro Asp Phe Gln Ser Val Thr Pro Lys Glu Lys Val
94 145          150          155          160
96 Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Gly Ser Ser Leu His Trp
97          165          170          175
99 Tyr Gln Gln Lys Pro Asp Gln Ser Pro Lys Leu Leu Ile Lys Tyr Ala
100          180          185          190
102 Ser Gln Ser Phe Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser
103          195          200          205
105 Gly Thr Asp Phe Thr Leu Thr Ile Asn Ser Leu Glu Ala Glu Asp Ala
106      210          215          220
108 Ala Ala Tyr Tyr Cys His Gln Ser Ser Ser Leu Pro Ile Thr Phe Gly
109 225          230          235          240
111 Gln Gly Thr Arg Leu Glu Ile Lys Asp Tyr Lys Asp Asp Asp Asp Lys
112          245          250          255
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116 <211> LENGTH: 794
117 <212> TYPE: DNA
118 <213> ORGANISM: Artificial
120 <220> FEATURE:
121 <223> OTHER INFORMATION: An artificially synthesized nucleotide sequence
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128 ctgagactct cctgtgcagc ctctggattc acctttagca gctatgccat gagctgggtc      180
130 cgccagggtc caggaagggt gctggagtgg gtctcagcta ttagtggttag tggtggttagc      240
132 agatactacg cagactccgt gaagggccgg ttcacatct ccagagacaa ttccaagaac      300
134 acgctgtatc tgcaaatgaa cagcctgaga gccgaggaca cggccgtata ttactgtgcg      360
136 aaagagagca gtggctggtt cggggccttt gactactggg gccagggaac cctggtcacc      420
138 gtctcctcag gtgaaattgt gctgactcag tctccagact ttcagtctgt gactccaaag      480
140 gagaaagtca ccatcacctg ccggggccagt cagagcattg gtagtagctt aacttggtac      540
142 cagcagaaac cagatcagtc tccaaagctc ctcacaaagt atgcttccca gtccttctca      600
144 ggggtcccct cgaggttcag tggcagtgga tctgggacag atttcaccct caccatcaat      660
146 agcctggaag ctgaagatgc tgcagcgtat tactgtcatc agagtagtag ttaccgatc      720
148 accttcggcc aagggaacac actggagatt aaagactaca aggatgacga cgataagtga      780
150 taagcggccg caat

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DATE: 06/22/2006

TIME: 12:50:24

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155 <212> TYPE: PRT
156 <213> ORGANISM: Artificial
158 <220> FEATURE:
159 <223> OTHER INFORMATION: An artificially synthesized peptide sequence
161 <400> SEQUENCE: 4
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165 Val Gln Cys Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln
166 20 25 30
168 Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
169 35 40 45
171 Ser Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
172 50 55 60
174 Glu Trp Val Ser Ala Ile Ser Gly Ser Gly Gly Ser Arg Tyr Tyr Ala
175 65 70 75 80
177 Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn
178 85 90 95
180 Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
181 100 105 110
183 Tyr Tyr Cys Ala Lys Glu Ser Ser Gly Trp Phe Gly Ala Phe Asp Tyr
184 115 120 125
186 Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Glu Ile Val Leu
187 130 135 140
189 Thr Gln Ser Pro Asp Phe Gln Ser Val Thr Pro Lys Glu Lys Val Thr
190 145 150 155 160
192 Ile Thr Cys Arg Ala Ser Gln Ser Ile Gly Ser Ser Leu His Trp Tyr
193 165 170 175
195 Gln Gln Lys Pro Asp Gln Ser Pro Lys Leu Leu Ile Lys Tyr Ala Ser
196 180 185 190
198 Gln Ser Phe Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly
199 195 200 205
201 Thr Asp Phe Thr Leu Thr Ile Asn Ser Leu Glu Ala Glu Asp Ala Ala
202 210 215 220
204 Ala Tyr Tyr Cys His Gln Ser Ser Ser Leu Pro Ile Thr Phe Gly Gln
205 225 230 235 240
207 Gly Thr Arg Leu Glu Ile Lys Asp Tyr Lys Asp Asp Asp Asp Lys
208 245 250 255
211 <210> SEQ ID NO: 5
212 <211> LENGTH: 791
213 <212> TYPE: DNA
214 <213> ORGANISM: Artificial
216 <220> FEATURE:
217 <223> OTHER INFORMATION: An artificially synthesized nucleotide sequence
219 <400> SEQUENCE: 5
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222 gtccagtgtg aggtacagct gttggagtct gggggaggct tggtacagcc tgggaggtcc 120
224 ctgagactct cctgtgcagc ctctggattc accttagca gctatgccat gagctgggtc 180

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226 cgccaggctc caggaagg gctggagtgg gtctcagcta ttagtggttag tgggtgtagc 240
228 agatactacg cagactccgt gaagggccgg ttcaccatct ccagagacaa ttccaagaac 300
230 acgctgtatc tgcaaatgaa cagcctgaga gccgaggaca cggccgtata ttactgtgcg 360
232 aaagagagca gtggctgggt cggggccttt gactactggg gccaggggaa cctggtcacc 420
234 gtctcctcag aaattgtgct gactcagtct ccagactttc agtctgtgac tccaaaggag 480
236 aaagtcacca tcacctgccg ggccagtcag agcattggta gtagcttaca ctggtaccag 540
238 cagaaaccag atcagtctcc aaagctcctc atcaagtatg cttcccagtc cttctcaggg 600
240 gtcccctcga ggttcagtgg cagtggatct gggacagatt tcaccctcac catcaatagc 660
242 ctggaagctg aagatgctgc agcgtattac tgtcatcaga gtagtagttt accgatcacc 720
244 ttcggccaag ggacacgact ggagattaaa gactacaagg atgacgacga taagtataa 780
246 gcggccgcaa t 791
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250 <211> LENGTH: 254
251 <212> TYPE: PRT
252 <213> ORGANISM: Artificial
254 <220> FEATURE:
255 <223> OTHER INFORMATION: An artificially synthesized peptide sequence
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258 Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
259 1 5 10 15
261 Val Gln Cys Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln
262 20 25 30
264 Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
265 35 40 45
267 Ser Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
268 50 55 60
270 Glu Trp Val Ser Ala Ile Ser Gly Ser Gly Gly Ser Arg Tyr Tyr Ala
271 65 70 75 80
273 Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn
274 85 90 95
276 Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
277 100 105 110
279 Tyr Tyr Cys Ala Lys Glu Ser Ser Gly Trp Phe Gly Ala Phe Asp Tyr
280 115 120 125
282 Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Glu Ile Val Leu Thr
283 130 135 140
285 Gln Ser Pro Asp Phe Gln Ser Val Thr Pro Lys Glu Lys Val Thr Ile
286 145 150 155 160
288 Thr Cys Arg Ala Ser Gln Ser Ile Gly Ser Ser Leu His Trp Tyr Gln
289 165 170 175
291 Gln Lys Pro Asp Gln Ser Pro Lys Leu Leu Ile Lys Tyr Ala Ser Gln
292 180 185 190
294 Ser Phe Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr
295 195 200 205
297 Asp Phe Thr Leu Thr Ile Asn Ser Leu Glu Ala Glu Asp Ala Ala Ala
298 210 215 220
300 Tyr Tyr Cys His Gln Ser Ser Leu Pro Ile Thr Phe Gly Gln Gly
301 225 230 235 240
303 Thr Arg Leu Glu Ile Lys Asp Tyr Lys Asp Asp Asp Lys

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Input Set : A:\seq\_listing.app

Output Set: N:\CRF4\06222006\J582654.raw

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308 <211> LENGTH: 1538
309 <212> TYPE: DNA
310 <213> ORGANISM: Artificial
312 <220> FEATURE:
313 <223> OTHER INFORMATION: An artificially synthesized nucleotide sequence
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318 gtccagtggt aggtacagct gttggagtc tggggagggt tggtagagcc tgggaggtcc      120
320 ctgagactct cctgtgcagc ctctggattc accttttagca gctatgccat gagctgggtc      180
322 cgccagggtc caggggaagg gctggagtggt gtctcagcta ttagtggtag tggtagtagc      240
324 agatactacg cagactccgt gaaggccggg ttcaccatct ccagagacaa ttccaagaac      300
326 acgctgtatc tgcaaatgaa cagcctgaga gccaggaca cggccgtata ttactgtgcg      360
328 aaagagagca gtggctgggt cggggccttt gactactggg gccagggaac cctgggtcacc      420
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338 ctccaccatca atagcctgga agctgaagat gctgcagcgt attactgtca tcagagtagt      720
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350 aattccaaga acacgctgta tctgcaaatg aacagcctga gagccgagga cacggccgta     1080
352 tattactgtg cgaaagagag cagtggctgg ttcggggcct ttgactactg gggccaggga     1140
354 accctgggtc ccgtctctc aggtggaggc ggatcggaat ttgtgctgac tcagtctcca     1200
356 gactttcagt ctgtgactcc aaaggagaaa gtcaccatca cctgccgggc cagtccagagc     1260
358 attggtagta gcttacactg gtaccagcag aaaccagatc agtctccaaa gctcctcatc     1320
360 aagtatgctt ccagtcctt ctcagggttc ccctcgaggt tcagtggcag tggatctggg     1380
362 acagatttca ccctcaccat caatagcctg gaagctgaag atgctgcagc gtattactgt     1440
364 catcagagta gtagtttacc gatcaccttc ggccaaggga cacgactgga gattaaagac     1500
366 tacaaggatg acgacgataa gtgataagcg gccgcaat      1538
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371 <212> TYPE: PRT
372 <213> ORGANISM: Artificial
374 <220> FEATURE:
375 <223> OTHER INFORMATION: An artificially synthesized peptide sequence
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382                               20                               25                               30
384 Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
385                               35                               40                               45
387 Ser Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
388 50                               55                               60

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RAW SEQUENCE LISTING ERROR SUMMARY  
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Input Set : A:\seq listing.app  
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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27

Seq#:28,29,30,31,32,33,34,35,36,37,38,39,40,41,42

**VERIFICATION SUMMARY**

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L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date